

Application No.: 10/665,532

Docket No.: 1381-0302P

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An elevator ~~in which~~ comprising a hoisting rope set (3) ~~consisting of having~~ hoisting ropes of a substantially round cross-section, ~~suspends a~~ counterweight (2) and an elevator car (1) suspended from the hoisting ropes and ~~which has at least one or more rope pulleys-pulley~~ provided with rope grooves, the at least one of said rope pulleys-pulley being a traction sheave (7) coated with a material increasing the coefficient of friction, said traction sheave being driven by a drive machine to move the hoisting rope set (3), ~~characterized in that~~ at least the traction sheave (7) forms together with the hoisting rope set (3) a material pair that allows the hoisting rope (3) to bite into the traction sheave (7) after the coating (102) on the surface of the traction sheave (7) has been lost.

2. (Currently Amended) The elevator-Elevator as defined in claim 1, ~~characterized in that wherein~~ the coating of the at least one rope pulleys-pulley is made of rubber, polyurethane or ~~some~~ other elastic material.

3. (Currently Amended) The elevator-Elevator as defined in claim 1 or 2, ~~characterized in that wherein~~ the hoisting ropes (3) used are super-strong thin ropes having a diameter of less than 8 mm, ~~preferably of 3-5 mm.~~

4. (Currently Amended) The elevator-Elevator as defined in claim 1, ~~characterized in that wherein~~ the hoisting ropes (3) contain a load-bearing part twisted from steel wires.

Application No.: 10/665,532

Docket No.: 1381-0302P

5. (Currently Amended) ~~The elevator-Elevator~~ as defined in claim 1, ~~characterized in that wherein~~ the elevator is safe to use even in exceptional conditions where the coating (102) on the surface of the traction sheave (7) has been lost.

6. (Currently Amended) A traction sheave (7) ~~designed especially~~ for steel wire ropes and ~~the traction sheave comprising having~~ rope grooves (101) for hoisting ropes (3) on ~~an its~~ outer rim (106) ~~thereof~~ and a coating (102) increasing friction against the hoisting ropes (3), ~~characterized in that~~ the material used in the traction sheave (7), at least under the coating (102) on the outer rim (106) of the traction sheave (7), is a material that allows the hoisting rope (3) to bite into it.

7. (Currently Amended) ~~The traction-Traction~~ sheave (7) as defined in claim 6, ~~characterized in that wherein~~ the material of the traction sheave includes a portion made of (7) ~~may be one of~~ soft steel, aluminum, cast iron, and brass ~~or some other metal or equivalent suited for the purpose.~~

8. (Currently Amended) ~~The traction-Traction~~ sheave (7) as defined in ~~any one of claims 6-7~~ claim 6, ~~characterized in that it wherein the sheave~~ has at the bottom of the rope grooves (201) of the traction sheave (7) a groove ~~shape~~ (203) allowing the hoisting rope (3) to bite more effectively into the groove.

Application No.: 10/665,532

Docket No.: 1381-0302P

9. (Currently Amended) ~~The traction~~-Traction sheave as defined in claim 6 8, ~~characterized in that wherein the groove (203) provided under the coating (202) in the rope groove (201) to allow the hoisting rope (3) to bite more effectively into it may be is one of an undercut groove, and a V-shaped groove, a groove of some other shape appropriate for the purpose or a number of parallel grooves.~~

10. (Currently Amended) ~~The traction~~-Traction sheave (7) as defined in claim 6, ~~characterized in that it comprises~~ further comprising an insert (204) in at least one of the rope grooves allowing the hoisting rope to bite into it, said insert being implanted under the coating (201) on the traction sheave (7), ~~into which the insert the hoisting rope (3) can bite,~~ maintaining a grip ~~sufficient for the operation of the elevator between the traction sheave (7) and the hoisting rope (3) when the coating is removed.~~

11. (Currently Amended) ~~The traction~~-Traction sheave (7) as defined in claim 1, ~~characterized in that it wherein the sheave has under the coating (102) in the rope groove (201) on the outer rim (106) of the traction sheave (7) a roughened area that makes it possible to maintain~~ for maintaining a sufficient grip between the hoisting rope (3) and the traction sheave (7).

12. (New) The elevator as defined in claim 3, wherein the diameter of the ropes is 3-5 mm.